ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

SURVEY

OF

THE

NINTH STANDARD

PARALLEL NORTH,

(SOUTH BOUNDARY),

TOWNSHIP 37 NORTH, RANGE 23 EAST,

Of the Gila and Salt River Meridian,
In the State of Arizona

EXECUTED BY

Jones Curtiss, Cadastral Surveyor

Under Special Instructions dated and approved February 17, 1998, which provided for the surveys included under Group Number 822 and assignment instructions dated February 17, 1998.

Survey Commenced April 22, 1998
Survey Completed May 4, 1998

INDEX DIAGRAM

TOWNSHIP 37 NORTH, RANGE 23 EAST,

GILA AND SALT RIVER MERIDIAN, ARIZONA

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T. 37 N., R. 23 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the survey of the Ninth Standard Parallel North, (south boundary), Township 37 North, Range 23 East, Gila and Salt River Meridian, Arizona.

The survey was executed in accordance with the specifications as set forth in the Manual of Instructions for the Survey of the Public Lands of the United States, 1973, and the Special Instructions dated February 17, 1998, for Group No. 822, Arizona.

The directions of all lines were determined, and distances measured, by the technique of differential positioning using Trimble Navigation 4400 Series Global Positioning System receivers utilizing the Real-Time Kinematic technique.

The geographic position of the southeast corner of the township was determined by the technique of differential positioning using the Ashtech M-Series Geodetic Positioning System. First order U. S. Coast and Geodetic Survey triangulation stations "KAYENTA 1951" and "LOHALI 1951" were used as control stations. The geographic position is as follows:

Lat.: 36°33'48.832" N. Long.: 109°48'16.339" W. NAD83(1992)

The mean magnetic declination is 12 1/2° E.

Survey of the Ninth Standard Parallel North, (South Boundary),
T. 37 N., R. 23 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Beginning at the stan. cor. of Tps. 37 N., Rs. 22 and 23 E., monumented with a stainless steel post, 2 1/2 ins. diam., with brass cap, set and mkd. as described in the field notes of the survey of the Ninth Standard Parallel North, (south boundary), T. 37 N., R. 22 E., executed concurrently under this same group.
	East, on the S. bdy. of sec. 31.
	Over rolling land atop Sweetwater Mesa.
40.00	Point for the stan. 1/4 sec. cor. of sec. 31.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.
	SC T37N R23E 1/4 S31 1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
80.00	Point for the stan. cor. of secs. 31 and 32.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.
	SC T37N R23E S31 | S32 1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
	Land, rolling. Soil, sandy clay. No timber; scattered brush and native grasses.
	East, on the S. bdy. of sec. 32.
	Over rolling land.
7.10	Barbed wire fence, 4 strands, bears ESE and WNW.

Survey of the Ninth Standard Parallel North, (South Boundary),
T. 37 N., R. 23 E., Gila and Salt River Meridian, Arizona

CHAINS	
29.49	Barbed wire fence, 4 strands, bears NNE and SSW.
30.30	E. rim of Sweetwater Mesa, bears NNE and SSW; thence descend abruptly to rolling land.
40.00	Point for the stan. 1/4 sec. cor. of sec. 32.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.
	SC T37N R23E 1/4 S32 1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
80.00	Point for the stan. cor. of secs. 32 and 33.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.
	SC T37N R23E S32 | S33 1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
	Land, rolling and broken. Soil, sandy and rocky clay. No timber; scattered brush and native grasses.
	East, on the S. bdy. of sec. 33.
	Over rolling land.
40.00	Point for the stan. 1/4 sec. cor. of sec. 33.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.

Survey of the Ninth Standard Parallel North, (South Boundary),
T. 37 N., R. 23 E., Gila and Salt River Meridian, Arizona

CHAINS	
	SC T37N R23E 1/4 S33 1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
44.55	Trail road, bears ENE and WSW.
51.70	Navajo Route 594, a graded road, 25 ft. wide, bears N. and S.
80.00	Point for the stan. cor. of secs. 33 and 34.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.
	SC T37N R23E S33 | S34 1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
	Land, rolling. Soil, sandy clay. No timber; scattered brush and native grasses.
	East, on the S. bdy. of sec. 34.
	Over rolling land.
40.00	Point for the stan. 1/4 sec. cor. of sec. 34.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.
	SC T37N R23E 1/4 S34 1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.

Survey of the Ninth Standard Parallel North, (South Boundary),
T. 37 N., R. 23 E., Gila and Salt River Meridian, Arizona

CHAINS	
43.50	Base of White Top Mesa, bears NE and SW.
47.40	W. rim of White Top Mesa, bears NE and SW; thence continue over rolling land atop mesa.
80.00	Point for the stan. cor. of secs. 34 and 35.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.
	SC T37N R23E S34 | S35 1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
	Land, rolling and broken. Soil, sandy and rocky clay. No timber; scattered brush and native grasses.
	East, on the S. bdy. of sec. 35.
	Over rolling land.
40.00	Point for the stan. 1/4 sec. cor. of sec. 35.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.
	SC T37N R23E 1/4 S35 1998
	Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
80.00	Point for the stan. cor. of secs. 35 and 36.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.

Survey of the Ninth Standard Parallel North, (South Boundary),
T. 37 N., R. 23 E., Gila and Salt River Meridian, Arizona

CHAINS	
	SC T37N R23E S35 | S36 1998 Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post. Cor. is located on gentle E. slope of White Top Mesa, bears NNE and SSW. Land, rolling. Soil, sandy clay. No timber; scattered brush and native grasses.
	East, on the S. bdy. of sec. 36. Over rolling land.
40.00	Point for the stan. 1/4 sec. cor. of sec. 36. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd. SC T37N R23E 1/4 S36 1998 Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.
80.00	Point for the stan. cor. of Tps. 37 N., Rs. 23 and 24 E. Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd. SC T37N R23E | R24E S36 | S31 1998 Deposit a magnet in a 1 x 1 x 2 ins. white colored plastic case beneath the stainless steel post.

Survey of the Ninth Standard Parallel North, (South Boundary),
T. 37 N., R. 23 E., Gila and Salt River Meridian, Arizona

CHAINS	
	Land, rolling. Soil, sandy clay. No timber; scattered brush and native grasses.

GENERAL DESCRIPTION

The area surveyed is within the Navajo Indian Reservation, approximately 12 miles north of the community of Rough Rock, Arizona. The terrain is mostly rolling land. White Top Mesa is the most prominent feature, located in sections 34 and 35. Drainage is northerly.

The elevation varies from 5,400 to 5,800 feet above sea level. The soil is mostly sandy and rocky clay, and the vegetation principally consists of scattered brush and native grasses.

Principal access to the area is provided by Navajo Route 594, a graded road in section 33, and trail roads. Most of the area is used for grazing of livestock. There is no evidence of current mining activity.

The mean magnetic declination of 12 1/2° E. was derived from the United States Geological Survey computer program GEOMAGIX utilizing the Regional Magnetic Field Model for Epoch 1995 for the dates of survey.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Daniel Bryan	Engineering Technician
Wilfred Chee	Engineering Technician
Edward Clarke	Engineering Technician
Reuben Mason	Engineering Technician
Barney Woodie	Engineering Technician

CERTIFICATE OF SURVEY

I, Jones Curtiss, Cadastral Surveyor, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 17th day of February 1998, I have surveyed the Ninth Standard Parallel North, (south boundary), Township 37 North, Range 23 East, of the Gila and Salt River Meridian, in the state of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction; and that said survey has been made in strict conformity with said Special Instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, 1973, and in specific manner described in the foregoing field notes.

February 9, 1999 (Date)

Jones Curtiss (Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Arizona State Office
Phoenix, Arizona

The foregoing field notes of the survey of the Ninth Standard Parallel North, (south boundary), Township 37 North, Range 23 East, Gila and Salt River Meridian, Arizona, executed by Jones Curtiss, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

April 5, 1999 (Date)

Kenny Ravenscar (Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

I CERTIFY that the ~~foregoing~~ transcript of the field notes of the above-described surveys in T. 37 N., R. 23 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

~~(Date)~~ ~~(Chief Cadastral Surveyor of Arizona)~~